

Progress Report 13

May 7th, 2002

Project Title: Platform for arm support during radiologic procedures

Team Members: Matt Harris, Luke Harris, Brandon Verdoorn, and Andrea Rozmenoski

Client: Michael Tuite

Advisor: Paul Thompson

Date: 5/01/02 – 5/07/02

Problem Statement:

The goal of this project is to design platforms that will offer maximum comfort to patients, especially older people, while they undergo radiologic procedures involving the spine. By supporting their arms during these procedures these platforms will allow patients to relax and not be in pain. Presently, patients must lie on their stomach and hold their arms outstretched to allow access of the x-rays. In older individuals, however, this becomes tiresome and painful during the exam.

Restatement of Team Goals:

1. Pick up finished prototype from seamstress
2. Perform both a quantitative and a qualitative test on the prototype
3. Meet with client to discuss the finished prototype and the patent process
4. Continue patent process – Finish filling out disclosure form (IDR form) and hand in to WARF
5. Continue dividing up paper and power-point responsibilities.

Summary of Team Accomplishments:

1. Met with client and discussed the finished prototype and patent process
 - a. Some minor adjustments for second arm support (Only if first one can be altered too:
 - Double stitch fabric by rods to make more durable
 - Change plastic piece from current thickness of ~1.2 cm to ~0.75 cm
 - Both arm supports should be symmetric when finished
 - No rubber pieces should be added (we thought it would make the design more secure, but client wants the device to be easily removed)
2. Finished filling out disclosure form (IDR form) with client
3. Went to WARF and handed the IDR form in
4. Performed two tests with the completed prototype –one qualitative and one quantitative
5. Divided up some of the sections needed to be done for the final paper
6. Team meeting on Sunday: Edited various parts we each wrote for the paper and divided up poster responsibilities. Set next team meeting for Wednesday night.

Summary of Individual Accomplishments:

Matt (Leader):

1. Performed Two Tests with the group – One tested the comfort and ease of use of the device while the other tested how much weight the support could hold
2. Updated the PDS (Product Design Specifications)
3. Wrote the Future Developments section of the final paper
4. Edited other parts of paper written by other group members
5. Took the patent disclosure form (IDR form) to WARF with Bill
6. Discussed prototype and possible improvements with client
7. Attended team meeting on Sunday – Divided up poster responsibilities
8. Progress Report
9. Made corrections to Future Developments section and sent to Andrea
10. Updated Notebook

Luke (Communicator):

1. Performed Two Tests with the group – One tested comfort and ease of use and the other tested how much weight the support could hold.
2. Brainstormed possible ideas to improve product and talk to client about
3. Wrote cost section and testing section for final paper
4. Edited various parts of the paper
5. Took pictures of product in use and of the product itself
6. Updated Notebook

Bill (BWIG):

1. Updated Website
2. Updated Notebook
3. Met with team to begin paper/presentation
4. Took the patent disclosure form to WARF with Matt
5. Discussed prototype and possible improvements with client
6. Wrote my part of paper
7. Edited midterm paper/figures
8. Made my slides for final presentation

Andrea (BSAC):

1. Tested product
2. Wrote ethics section of the paper
3. Wrote section of the BSAC paper
4. BSAC meeting
5. Went over paper with group
6. Made PowerPoint slides
7. Wrote sections for the poster
8. Revised final draft of paper
9. Updated notebook

Statement of Team Goals:

1. Continue working on and finishing up paper and poster responsibilities.
2. Review and compile everything as a team
3. Practice poster presentation as a group
4. Decide on time to meet with advisor after the presentation
5. Update our notebooks

Project Schedule:

4/26 - 5/10 Prepare final presentation and paper
5/10 Final poster presentation
5/12 - 5/18 Final meeting with advisor

Difficulties:

None at the moment.

Activities:

Matt:

Performed Two Tests with the group – One tested the comfort and ease of use of the device while the other tested how much weight the support could hold – 2.0 hrs
Updated the PDS (Product Design Specifications) – 1.0 hr
Wrote the Future Developments section of the final paper - 1.0 hr
Edited other parts of paper written by other group members - 1.5 hrs
Took the patent disclosure form (IDR form) to WARF with Bill - 0.5 hrs
Discussed prototype and possible improvements with client – 1.0 hr
Attended team meeting on Sunday – Divided up poster responsibilities – 0.5 hr
Progress Report - 1.5 hr
Made corrections to Future Developments section and sent to Andrea- 0.5 hrs
Updated Notebook – 1.0 hr
Total: 10.5 Hours

Luke:

Performed Two Tests with the group – One tested comfort and ease of use and the other tested how much weight the support could hold – 2 hrs
Brainstormed possible ideas to improve product and talked to client about it – 1 hr
Wrote cost section and testing section for final paper – 3 hrs
Edited various parts of the paper – 1.5 hrs
Took pictures of product in use and of the product itself - .5 hrs
Updated Notebook – 1.0 hr
Total: 9.0 Hours

Bill:

Updated Website - 0.75 hrs
Updated Notebook - 1.5 hrs
Met with team to begin paper/presentation - 1.75 hrs
Took the patent disclosure form to WARF with Matt – 0.5 hrs
Discussed prototype and possible improvements with client - 1.0 hr

Wrote my part of paper - 1.0 hr
Edited midterm paper/figures - 1.0 hr
Made my slides for final presentation - .5 hrs
Total – 8.0 hours

Andrea:

Tested product – 2.0 hrs
Wrote ethics section of the paper – 2.0 hrs
Wrote section of the BSAC paper – 2.0 hrs
BSAC meeting -1.0 hr
Went over paper with group - 1.5 hrs
Made PowerPoint slides - 1.0 hr
Wrote sections for the poster - 2 hrs
Revised final draft of paper – 1.0 hr
Updated notebook – 1.0 hr
Total: 13.5 hours

Team Total Hours for this week: 41.0 hours
Cumulative Team Hours up to date: 289.50 hours